

# Abstract of the Disclosure

The present invention discloses an apparatus for suppressing stimulated Brillouin scattering and the method thereof that a threshold fiber input power is raised in order to prevent loss of an inputted light by stimulated Brillouin scattering being generated in a case that a signal having a strong intensity is inputted to the optical fiber and so a light signal having more strong intensity can be inputted to the optical fiber. The apparatus for suppressing the SBS includes a plurality of first transmission unit, each of which has a wavelength separation, for transmitting information signals through a signal channel; and a second transmission unit for generating and transmitting a supervisory signal of which a modulation frequency and an intensity generates a phase modulation to the plurality of information signals, through a supervisory channel. The modulation frequency and the intensity of the supervisory signal are modulated in phase to the information signals by a cross phase modulation effect, thereby broadening a line width of the information signal.